

What Is Claimed Is:

1. Apparatus for testing functionality of a printed circuit board used to control operation of a printing press, comprising:

a plurality of input switches for providing to said circuit board test input signals simulating function control signals from a printing press control input, said function control signals controlling a plurality of functions of said printing press;

a plurality of test loads simulating printing press loads for receiving from said circuit board output drive signals developed in response to said test input signals; and

a processor for controlling operation of said input switches and for monitoring responses of said test loads in response to said output drive signals;

whereby proper functionality of said printed circuit board in response to each of said plurality of function control signals is analyzed under simulated conditions of an actual operating printing press.

2. Apparatus according to claim 1, wherein plurality of input switches comprises at least one toggle switch.

3. Apparatus according to claim 2, wherein said at least one toggle switch provides a function enable signal for enabling a printing press function to be controlled by said circuit board.

4. Apparatus according to claim 3, wherein said printed circuit board comprises a digital inker board for controlling a volume of ink applied to an ink roller of said

printing press for image printing, and a color change volume of ink applied to said ink roller for a color change function.

5. Apparatus according to claim 4, wherein said plurality of switches includes an ink enable toggle switch for enabling a roller inker function of said digital inker board.

6. Apparatus according to claim 4, wherein said plurality of switches includes a color change enable toggle switch for enabling said roller ink color change function of said digital inker board.

7. Apparatus according to claim 4, wherein test loads corresponding to said ink enable and color change functions are comprised of a plurality of ink pack solenoid coil simulated loads.

8. Apparatus according to claim 1, wherein said printed circuit board comprises a dampening, registration and ink (DRINK) board for controlling roller dampening, roller positional registration, and ink roller rotational speed functions of said printing press.

9. Apparatus according to claim 8, wherein test loads corresponding to said dampening functions are comprised of a plurality of spray-bar solenoid coil simulated loads.

10. Apparatus according to claim 8, wherein said test loads corresponding to said positional registration functions are comprised of a plurality of registration solenoid coil

simulated loads.

11. Apparatus according to claim 8, further comprising a plurality of analog test point loads for receiving analog drive signals for said ink roller rotational speed function.

12. Apparatus according to claim 1, further comprising a frequency generator for generating a frequency signal simulating an operating frequency of said printing press and applied as an input signal to said circuit board.